SUBSTITUTE SEQUENCE LISTING

<110> Rebar, Edward
Jamieson, Andrew
Liu, Qiang
Liu, Pei-Qi
Wolffe, Alan
Eisenberg, Stephen P.
Jarvis, Eric
Sangamo BioSciences, Inc.

<120> Regulation of Angiogenesis With Zinc Finger Proteins

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<220>
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<210> 142
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<400> 142
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<210> 143
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<400> 143
gctgggggck 10

<210> 144
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<210> 145
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gggggtgacc 10

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aaggggggagg 10

<210> 147
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<400> 147
gcaggggccg 10

<210> 148
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<220>
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1 5

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Arg Ser Asp Asn Leu Thr Arg
1 5

<210> 151
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1 5

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<220>
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1 5

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<220>
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<210> 161
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Thr Thr Ser Asn Leu Arg Arg
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<210> 162
<211> 7
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<220>
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<400> 162
Arg Ser Ser Asn Leu Gln Arg
1 5

<210> 163
<211> 7
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<220>
<223> finger

<400> 163
Arg Ser Asp His Leu Ser Arg
1 5

<210> 164
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<220>
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<400> 164
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<220>
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<400> 165
Arg Ser Asp His Leu Thr Arg
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<210> 166
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<220>
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Gln Ser Ser Asp Leu Thr Arg
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<210> 167
<211> 7
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<220>
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<400> 167
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1 5

<210> 168
<211> 7
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<210> 169
<211> 7
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<220>

<223> finger

<400> 169
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1 5

<210> 170
<211> 7
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<220>
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1 5

<210> 171
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<400> 171
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1 5

<210> 172
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<220>
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<400> 172
Arg Ser Asp His Leu Ser Arg
1 5

<210> 173
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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 174
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<210> 175
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Arg Ser Asp Asn Leu Thr Gln
1 5

<210> 176
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1 5

<210> 177
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Arg Ser Asp His Leu Ser Arg
1 5

<210> 178
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<220>
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Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 179
<211> 7
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<220>
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Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 180
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<220>
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<400> 180
Gln Ser Gly His Leu Gln Arg
1 5

<210> 181
<211> 7
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<220>
<223> finger

<400> 181
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 182
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<213> Artificial Sequence

<220>
<223> target

<400> 182
ggagaggggg ccgcagtg 18

<210> 183
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 183
atggacgggt gaggcggcg 19

<210> 184
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 184
gggggtgac 9

<210> 185
<211> 9
<212> DNA
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<220>
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<400> 185
gctgggggc 9

<210> 186
<211> 7
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<220>
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<400> 186
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1 5

<210> 187
<211> 7
<212> PRT
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<220>
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<400> 187
Gln Ser Gly Asp Leu Thr Arg
1 5

<210> 188
<211> 7
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<220>
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<400> 188
Glu Arg Gly Asp Leu Thr Arg
1 5

<210> 189
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 189
Arg Ser Asp His Leu Ala Arg
1 5

<210> 190
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 191
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<220>
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Gln Ser Ser His Leu Ala Arg
1 5

<210> 192
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Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 193
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<220>
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<400> 193
Arg Ser Asp Glu Leu Gln Arg
1 5

<210> 194
<211> 7
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<220>
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Arg Ser Asp Asn Leu Ala Arg
1 5

<210> 195
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<213> Artificial Sequence

<220>
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<400> 195
Arg Ser Asp His Leu Ala Arg
1 5

<210> 196
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1 5

<210> 197
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<220>
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Arg Ser Asp Ala Leu Thr Gln
1 5

<210> 198
<211> 7
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Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 199
<211> 7
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<220>
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<400> 199
Met Ser His His Leu Ser Arg
1 5

<210> 200
<211> 7
<212> PRT
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<220>
<223> recognition helix

<400> 200
Arg Ser Asp His Leu Ser Arg
1 5

<210> 201
<211> 7
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<220>
<223> recognition helix

<400> 201
Asp Arg Ser His Leu Thr Arg
1 5

<210> 202
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 202
Arg Ser Asp His Leu Thr Arg
1 5

<210> 203
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 203
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 204
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-C forward primer

<400> 204
tgccgatgca tgtctaaact 20

<210> 205
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> VEGF-C reverse primer

<400> 205
tgaacaggtc tcttcatcca gc 22

<210> 206
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-C probe

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<222> (1)...(1)
<223> n = c modified by aminofluorescein (FAM)

<221> modified_base
<222> (26)...(26)
<223> n = a modified by tetramethylrhodamine (TAMRA)

<400> 206
nagcaacact accacagtgt caggcn 26

<210> 207
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 207
tgagcggcgg cagcggagc 19

<210> 208
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> exemplary DNA-binding subdomain motif of C-2H-2 class of zinc finger proteins (ZFP)

<221> MOD_RES
<222> (2)...(5)
<223> Xaa = any amino acid, Xaa in positions 4 and 5 may be present or absent

<221> MOD_RES
<222> (7)...(18)
<223> Xaa = any amino acid

<221> MOD_RES
<222> (20)...(24)
<223> Xaa = any amino acid, Xaa in positions 23 and 24 may be present or absent

<400> 208
Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
20 25

<210> 209
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 209
ggcgtagac 9

<210> 210
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 210
ggcgacgta 9

<210> 211
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 211
Thr Gly Glu Lys Pro
1 5

<210> 212
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 212
Gly Gly Gly Gly Ser
1 5

<210> 213
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 213
Gly Gly Arg Arg Gly Gly Gly Ser
1 5

<210> 214
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 214
Leu Arg Gln Arg Asp Gly Glu Arg Pro
1 5

<210> 215
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 215
Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
1 5 10

<210> 216
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide linker

<400> 216
Leu Arg Gln Lys Asp Gly Gly Gly Ser Gly Gly Gly Ser Glu Arg Pro
1 5 10 15

<210> 217
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> F1 DNA binding domain of mouse transcription factor Zif268

<400> 217
Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
1 5 10 15
Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro
20 25 30

<210> 218
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> F2 DNA binding domain of mouse transcription factor Zif268

<400> 218

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu
1 5 10 15
Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro
20 25

<210> 219
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> F3 DNA binding domain of mouse transcription factor Zif268

<400> 219
Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg
1 5 10 15
Lys Arg His Thr Lys Ile His Leu Arg Gln Lys
20 25

<210> 220
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> mouse transcription factor Zif268 target

<400> 220
gcgtgggcg 9

<210> 221
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> Sp-1 transcription factor

<400> 221
Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly Lys
1 5 10 15
Val Tyr Gly Lys Thr Ser His Leu Arg Ala His Leu Arg Trp His Thr
20 25 30
Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg Phe
35 40 45
Thr Arg Ser Asp Glu Leu Gln Arg His Lys Arg Thr His Thr Gly Glu
50 55 60
Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp
65 70 75 80
His Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly
85 90

<210> 222
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Sp-1 optimal target consensus sequence

<400> 222
ggggcgggg 9

<210> 223
<211> 100
<212> PRT
<213> Artificial Sequence

<220>
<223> Sp-i consensus sequence with leader sequence

<400> 223
Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
1 5 10 15
His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Lys Ser Ser His Leu
20 25 30
Arg Ala His Gln Arg Thr His Thr Gly Glu Arg Pro Tyr Lys Cys Pro
35 40 45
Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Gln Arg His Gln
50 55 60
Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
65 70 75 80
Ser Phe Ser Arg Ser Asp His Leu Ser Lys His Gln Arg Thr His Gln
85 90 95
Asn Lys Lys Gly
100

<210> 224
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> N-terminal nucler localization signal from SV40
large T antigen

<400> 224
Pro Lys Lys Lys Arg Lys Val
1 5

<210> 225
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> FLAG peptide

<400> 225
Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 226
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-A forward primer

<400> 226

gtgcattgga gccttgcctt g 21

<210> 227
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-A reverse primer

<400> 227
actcgatctc atcagggtac tc 22

<210> 228
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> VEGF-A Taqman probe

<221> modified_base
<222> (1)...(1)
<223> n = c modified by aminofluorescein (FAM)

<221> modified_base
<222> (25)...(25)
<223> n = a modified by tetramethylrhodamine (TAMRA)

<400> 228
nagtagctgc gctgatagac atccn 25

<210> 229
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> GAPDH forward primer

<400> 229
ccatgttcgt catgggtgtg a 21

<210> 230
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> GAPDH reverse primer

<400> 230
catggactgt ggtcatgagt 20

<210> 231
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> GAPDH Taqman probe

<221> modified_base
<222> (1)...(1)
<223> n = t modified by aminofluorescein (FAM)

<221> modified_base
<222> (24)...(24)
<223> n = a modified by tetramethylrhodamine (TAMRA)

<400> 231
ncctgcacca ccaactgctt agcn 24

<210> 232
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> VP16-FLAG forward primer

<400> 232
catgacgatt tcgatctgga 20

<210> 233
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> VP16-FLAG reverse primer

<400> 233
ctacttgtca tcgtcgtcct tg 22

<210> 234
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> VP16-FLAG Taqman probe

<221> modified_base
<222> (1)...(1)
<223> n = a modified by aminofluorescein (FAM)

<221> modified_base
<222> (26)...(26)
<223> n = a modified by tetramethylrhodamine (TAMRA)

<400> 234
ntcggtaaac atctgctcaa actcgn 26

<210> 235
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> RT-PCR primer

<400> 235
atgaactttc tgctgtcttg ggtgcatt 28

<210> 236
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> RT-PCR primer

<400> 236
tcaccgcctc ggcttgtcac at 22

<210> 237
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> murine VEGF target

<400> 237
tgagcggcgg cagcggag 18

<210> 238
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<220>
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<400> 238
Arg Ser Asp Glu Leu Ser Arg
1 5

<210> 239
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> recognition helix

<400> 239
Gln Ser Gly His Leu Thr Lys
1 5

<210> 240
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 240
gctgggggcg 10

<210> 241
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 241
cccagatctg gtgatggcaa gaagaagcag caccatctgc cacatccag 49

<210> 242
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 242
cccaagctta ggatccaccc ttcttgttct ggtgggt 37

<210> 243
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> VZ+57

<400> 243
His Gln Asn Lys Lys Gly Gly Ser Gly Asp Gly Lys Lys Lys Gln His
1 5 10 15
Ile Cys

<210> 244
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> target

<400> 244
gaggcttgg 9

<210> 245
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 245
Thr Ser Gly His Leu Thr Arg
1 5

<210> 246
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
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<400> 246
Thr Ser Gly His Leu Ile Arg
1 5

<210> 247
<211> 7
<212> PRT
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<220>
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<400> 247
Thr Ser Gly His Leu Ser Arg
1 5

<210> 248
<211> 7
<212> PRT
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<220>
<223> finger

<400> 248
Thr Ser Gly His Leu Ala Arg
1 5

<210> 249
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> finger

<400> 249
Thr Ser Gly His Leu Arg Arg
1 5

<210> 250
<211> 7
<212> PRT
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<220>
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<400> 250
Thr Ala Gly His Leu Val Arg
1 5

<210> 251
<211> 7
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<213> Artificial Sequence

<220>
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<400> 251
Thr Thr Gly His Leu Val Arg
1 5

<210> 252
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<212> PRT
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<220>
<223> finger

<400> 252
Thr Lys Asp His Leu Val Arg
1 5